

CAPITAL IMPROVEMENT PLAN

General Capital Projects

Fiscal Years 2010/11 through 2017/18

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriations										
<i>Facilities</i>										
Animal Shelter - Renovations	400,000	2,750,000	0	0	0	0	1,000,000	0	0	4,150,000
Bandys Area Facility Addition for EMS	237,506	84,014	0	0	0	0	0	0	0	321,520
Conover Fire Station # 2 Addition for EMS	0	0	0	230,000	0	0	0	0	0	230,000
General Renovations	59,964	59,964	59,964	59,964	0	0	0	0	0	239,856
Hickory EMS Base	0	0	0	0	450,000	0	0	0	0	450,000
Hickory Fuel Depot	0	0	0	150,000	0	0	0	0	0	150,000
Hickory Rescue Base 2 Addition for EMS	0	0	230,000	0	0	0	0	0	0	230,000
Hickory Rescue Squad Project	1,300,000	0	0	0	0	0	0	0	0	1,300,000
Jail Addition	550,000	250,000	250,000	250,000	250,000	4,650,000	0	0	0	6,200,000
Justice Center/Court Expansion	25,542,707	1,990,580	0	0	0	0	0	0	0	27,533,287
Parks	450,000	0	580,000	850,000	300,000	0	550,000	0	0	2,730,000
Public Safety Center	7,202,559	395,854	0	0	0	0	0	0	0	7,598,413
Sherrills Ford Library	1,125,000	375,000	0	0	0	0	0	0	0	1,500,000
Sherrills Ford Fire Department Renovations for EMS	0	0	0	0	0	0	318,000	0	0	318,000
<i>General</i>										
Contingency	Ongoing	0	50,000	50,000	50,000	50,000	50,000	50,000	50,000	350,000
<i>Economic & Physical Development</i>										
Multi-Jurisdictional Park	0	200,000	0	0	0	0	0	0	0	200,000
<i>Technology</i>										
E-911 Telephone Upgrade	0	0	0	700,000	0	0	0	0	0	700,000
Fire House Software	0	0	0	0	300,000	0	0	0	0	300,000
Library System	0	0	0	0	0	0	250,000	0	0	250,000
Microsoft Licensing (set aside)	Ongoing	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,600,000
Mobile Workforce	Ongoing	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	400,000
Orthophoto Upgrade	0	0	0	135,000	0	0	0	145,000	0	280,000
PeopleSoft Replacement	0	50,000	50,000	0	500,000	500,000	0	0	0	1,100,000
Permitting Software/Hardware	0	0	0	100,000	100,000	100,000	100,000	100,000	100,000	600,000
Pictometry Photos	0	0	0	105,000	0	0	0	115,000	0	220,000
Public Health Billing Sotware	0	110,000	0	0	0	0	0	0	0	110,000
Quantar Base Station Upgrade	0	0	150,000	0	0	0	0	0	0	150,000
SAN Virtual Server (set aside)	0	0	125,000	125,000	125,000	125,000	125,000	125,000	125,000	875,000
Tax System	215,000	0	175,000	0	0	0	0	0	0	390,000
Technology Infrastructure Upgrades (set aside)	Ongoing	150,000	150,000	200,000	200,000	200,000	200,000	200,000	200,000	1,500,000
800 MHz Radios	502,752	286,624	0	0	0	0	0	0	0	789,376
	37,585,488	6,952,036	2,069,964	3,204,964	2,525,000	5,875,000	2,843,000	985,000	725,000	62,765,452
Revenue/Funding Source										
CVBH Rent	82,500	0	0	0	0	0	0	0	0	82,500
Debt Financing	23,612,500	2,750,000	0	0	0	4,650,000	1,000,000	0	0	32,012,500
E-911 Fund	2,282,752	0	0	802,465	0	0	0	108,750	0	3,193,967
Federal Bed Rental	400,000	250,000	250,000	250,000	250,000	0	0	0	0	1,400,000
GCC 800 MHz Grant	0	121,624	0	0	0	0	0	0	0	121,624
General Capital Fund Balance	2,907,453	1,184,014	1,195,000	430,000	350,000	50,000	50,000	50,000	50,000	6,266,467
General Fund	1,382,553	200,000	275,000	1,103,750	1,475,000	1,175,000	1,518,000	761,250	675,000	8,565,553
General Fund (Mental Health Indirect Cost)	195,000	0	0	0	0	0	0	0	0	195,000
LifeSkills Rent	59,964	59,964	59,964	59,964	0	0	0	0	0	239,856
Local Bed Rental	150,000	0	0	0	0	0	0	0	0	150,000
Municipalities	Every 4 Years	0	0	58,785	0	0	0	65,000	0	123,785
North Carolina DOT Grant	0	0	0	0	50,000	0	0	0	0	50,000
Proceeds from 1/4 cent sales tax	6,512,766	2,386,434	0	0	0	0	0	0	0	8,899,200
Sale of Base	0	0	0	0	250,000	0	0	0	0	250,000
Parks and Recreation Trust Fund (PARTF)	0	0	290,000	500,000	0	0	275,000	0	0	1,065,000
Carolina Thread Trail (CTT)	0	0	0	0	150,000	0	0	0	0	150,000
	37,585,488.00	6,952,036	2,069,964	3,204,964	2,525,000	5,875,000	2,843,000	985,000	725,000	62,765,452

CAPITAL IMPROVEMENT PLAN
General Capital Projects
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Project Name 800 MHz Radios (12028)
Project Service Area Public Safety
Project Department Communications Center

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	502,752	286,624	0	0	0	0	0	0	0	789,376
	502,752	286,624	0	0	0	0	0	0	0	789,376
Revenue/Funding Source										
E-911 Fund	282,752	0	0	0	0	0	0	0	0	282,752
CVBH Rent	82,500	0	0	0	0	0	0	0	0	82,500
GCC 800 MHz Grant	0	121,624	0	0	0	0	0	0	0	121,624
General Capital Fund Balance	137,500	165,000	0	0	0	0	0	0	0	302,500
	502,752	286,624	0	0	0	0	0	0	0	506,624

Project Description/Justification

Catawba County is phasing in an interoperable 800 MHz public safety communications network by capitalizing on partnerships with other local jurisdictions and the North Carolina State Highway Patrol (NCSHP) including actively pursuing State and Federal grant funds. The NCSHP VIPER network was built for public safety interoperability across the State. It works off of an 800 MHz trunked system. Implementation of an 800 MHz radio system will allow Catawba County public safety agencies to seamlessly communicate with each other as well as other public safety agencies in the region and across the State greatly enhancing their ability to work together to respond to emergency situations. Current coverage in the Catawba County area is good and will provide even more coverage with the addition or upgrade of several tower sites.

Catawba County has identified needs of 174 portable 800 MHz radios. These radios coupled with an increase in 800 MHz talk groups in the Communications Center that took place in Fiscal Year 2008/09 will enable the Sheriff's Office, EMS, Emergency Management, Public Health, and Animal Services to begin using the VIPER infrastructure. Plans are to phase the purchase of these radios in over a 4 year period targeting law enforcement and EMS first and to the extent possible use county funds to provide matching money for grants. Other agencies will continue using the current VHF system. The two systems will be connected in the Communications Center. At the same time, Catawba County will work with the NCSHP to complete the construction of the Riverbend Tower and upgrade the NCSHP tower on Baker's Mountain. Once all agencies are converted to 800 MHz, the existing VHF network will remain in place as a backup for the 800 system.

General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name Animal Shelter - Renovations & Additions (12022)
Project Service Area Public Safety
Project Department Emergency Services

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	400,000	2,750,000	0	0	0	0	1,000,000	0	0	4,150,000
	400,000	2,750,000	0	0	0	0	1,000,000	0	0	4,150,000
Revenue/Funding Source										
General Fund	0	0	0	0	0	0	0	0	0	0
General Capital Fund Balance	400,000	0	0	0	0	0	0	0	0	400,000
Debt Financing	0	2,750,000	0	0	0	0	1,000,000	0	0	3,750,000
	400,000	2,750,000	0	0	0	0	1,000,000	0	0	4,150,000

Project Description/Justification

The current Animal Service facility was built in 1985 and was designed to house 78 animals. On an average day, the shelter now houses approximately 200 animals, creating an unsafe environment for animals and staff. Due to the overcrowding problems, many animals must be euthanized that may have otherwise been placed for adoption, the shelter is battling disease outbreaks, and dog fights have occurred between dogs being surrendered and those being adopted. The current facility does not meet the standard regulations for an animal services facility. The shelter is now treating and caring for animals which it was not originally designed to do. There is no separate entrance for animals that are owner surrenders. The public and the animals use the same entrance, which aids in transmitting diseases within the general animal population. The current facility is lacking storage space for perishable food items and other equipment. There is also not enough office space for the employees, making the environment extremely cramped, not only for staff, but for customers coming into the shelter as well. Additionally, there is no space for officers to meet with citizens in a private area. This project will be completed in two phases with the first phase increasing animal holding times to 5-7 days and the second phase increasing them to 10 days.

Building operating costs are anticipated to increase as a result of the expanded facility but will be determined by the architect plans being developed in Fiscal Year 2009/10 and are therefore not projected here. One additional position is anticipated starting in Fiscal Year 2011/12 as a result of the expansion with salary and benefits of roughly \$33,000. Debt service payment of roughly \$275,000 per year anticipated starting Fiscal Year 2011/12 with an additional \$100,000 per year starting in Fiscal Year 2016/17.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name Bandys Facility Addition for EMS (12032)
Project Service Area Public Safety
Project Department Emergency Services

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	237,506	84,014	0	0	0	0	0	0	0	321,520
	237,506	84,014	0	0	0	0	0	0	0	321,520
Revenue/Funding Source										
General Capital Fund Balance	237,506	84,014	0	0	0	0	0	0	0	321,520
	237,506	84,014	0	0	0	0	0	0	0	321,520

Project Description/Justification

The Bandys area of the County is in need of additional EMS coverage because of an increase in call volume, population, and traffic density. These factors all affect the response time criteria of 8 minutes, set by the Board of Commissioners. Funds are allocated to build an addition to an existing structure in the Bandys area to enable a new EMS crew to be located in that area. The addition would total 1,416 square feet which would include bay space (960 sq. ft.), dayroom (256 sq. ft.), medical supply room (100 sq. ft.), and office (100 sq. ft.) at a projected cost of \$200 per square foot plus 10% of total construction cost for architect fees and \$10,000 for surveying, soil testing, and construction material testing.

Building operating costs for the facility are anticipated to be roughly \$7,500 beginning in Fiscal Year 2011/12. A new ambulance unit will be stationed in this addition to be phased in over at least three years with a truck (\$150,000) and two FTEs (\$100,626) planned in Fiscal Year 2011/12, two FTEs in Fiscal Year 2012/13 (\$103,645), and four FTEs (\$213,508) in Fiscal Year 2013/14.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name Conover Fire Station #2 Renovations for EMS
Project Service Area Public Safety
Project Department Emergency Services

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	230,000	0	0	0	0	0	230,000
	0	0	0	230,000	0	0	0	0	0	230,000
Revenue/Funding Source										
General Capital Fund Balance	0	0	0	230,000	0	0	0	0	0	230,000
	0	0	0	230,000	0	0	0	0	0	230,000

Project Description/Justification

The Conover area of the County is in need of additional EMS coverage because of an increase in call volume, population, and traffic density. These factors all affect the response time criteria of 8 minutes, set by the Board of Commissioners. Funds are allocated to build a 1,000 square foot addition to Conover Fire Station #2 to enable a new EMS crew to be located in that area.

Building operating costs are anticipated to be roughly \$7,000 beginning in Fiscal Year 2013/14.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name Contingency (11000)
Project Service Area General Capital Projects
Project Department General Capital Projects

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	Ongoing	0	50,000	50,000	50,000	50,000	50,000	50,000	50,000	250,000
	0	0	50,000	50,000	50,000	50,000	50,000	50,000	50,000	250,000
Revenue/Funding Source										
General Capital Fund Balance	Ongoing	0	50,000	50,000	50,000	50,000	50,000	50,000	50,000	250,000
	0	0	50,000	50,000	50,000	50,000	50,000	50,000	50,000	250,000

Project Description/Justification

Catawba County does not budget contingency in each individual project, but uses one amount to cover any unexpected costs.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name E-911 Telephone Upgrade
Project Service Area Public Safety
Project Department Communications Center

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	700,000	0	0	0	0	0	700,000
	0	0	0	700,000	0	0	0	0	0	700,000
Revenue/Funding Source										
E-911 Fund	0	0	0	700,000	0	0	0	0	0	700,000
	0	0	0	700,000	0	0	0	0	0	700,000

Project Description/Justification

The new E-911 phone system will be implemented by the end of Fiscal Year 2007/08. Being faced with new technology such as Voice Over Internet (VOIP), Text Messaging, Video Data to Public Safety personnel, we will need to re-visit and move forward with the newer technology by Fiscal Year 2012/13.

Annual maintenance costs for the existing phone system are currently budgeted in the Emergency Telephone Fund and are anticipated to be sufficient to cover any reoccurring operating associated with the upgrade.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name Emergency Services Management System
Project Service Area Public Safety
Project Department Emergency Services

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	300,000	0	0	0	0	300,000
	0	0	0	0	300,000	0	0	0	0	300,000
Revenue/Funding Source										
General Capital Fund Balance	0	0	0	0	300,000	0	0	0	0	300,000
	0	0	0	0	300,000	0	0	0	0	300,000

Project Description/Justification

Emergency Services (ES) oversees the activity of 19 fire and rescue stations throughout Catawba County and is responsible for reporting the information to state and federal agencies. In 2008, there were over 18,400 calls for fire and/or rescue services. Each station records data related to the calls they respond to and then forwards the information to the County Fire and Rescue manager each month. Currently, there are 5 different systems used to collect related information. Sorting, importing and compiling the data from 19 agencies and 5 internal agencies takes many hours of preparation per month. The proposed system would replace all of these with a single point of entry providing a web-based, consolidated repository for the related data. The margin of error would be reduced because call information would be transferred directly from the 911 CAD system if the call originated via 911. Response times and other statistical analysis would be much more reliable coming from a single data source rather than more than 20 different systems. Additionally, this new system would allow us to better track our ability to provide critical services to the citizens, through identification of both positive and negative trends in response capabilities. This is a feature that is currently not available with some of the systems that are now in place. In the area of Fire Investigations, the current system does not adequately catalog data. Due to the critical nature of this information and the potential of it being used in court, it is imperative that this information is maintained accurately. The new system will provide a database that allows investigators to identify commonalities between suspicious fires and offer the ability to maintain a suspect database. Additionally, it will automatically tie the Fire Department report based on CAD number to the investigation report which will consolidate all data pertaining to a specific incident into one location.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name General Renovations (GC3)
Project Service Area General Capital
Project Department General Capital

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	59,964	59,964	59,964	59,964	0	0	0	0	0	239,856
	59,964	59,964	59,964	59,964	0	0	0	0	0	239,856
Revenue/Funding Source										
LifeSkills Rent	59,964	59,964	59,964	59,964	0	0	0	0	0	239,856
	59,964	59,964	59,964	59,964	0	0	0	0	0	239,856

Project Description/Justification

A portion of the rent received for the LifeSkills building is reserved for future maintenance needs for general county buildings.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name Hickory EMS Base Relocation
Project Service Area Public Safety
Project Department Emergency Services

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	450,000	0	0	0	0	450,000
	0	0	0	0	450,000	0	0	0	0	450,000
Revenue/Funding Source										
General Capital	0	0	0	0	200,000	0	0	0	0	200,000
Sale of Base	0	0	0	0	250,000	0	0	0	0	250,000
	0	0	0	0	450,000	0	0	0	0	450,000

Project Description/Justification

The current Hickory base at Lenior-Rhyne Blvd. will be closed and the two EMS crews stationed at the base will be moved to Hickory Fire Station #5 (located at 1425 21 St. Dr. SE) and to Hickory Fire Station #3 (located at 135 11th Street, NW). In Fiscal Year 2013/2014, Hickory Fire Station #3 will require renovations to continue to house an EMS crew. The renovations to Station #3 will include a bay, dayroom, office space, and reporting room.

Due to the growth and access problems at the current base on Lenior-Rhyne Blvd., it has become more difficult to successfully operate. The area also has had an increase in foot traffic, which is causing security issues. In addition to the area, the current building has sewage and drainage issues and is also too small to house the current staff.

This is a move of an existing base and is not anticipated to result in operating cost changes.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name	Hickory Fuel Depot									
Project Service Area	Public Safety									
Project Department	Emergency Services									
Project Budget	Prior Year	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	150,000	0	0	0	0	0	150,000
	0	0	0	150,000	0	0	0	0	0	150,000
Revenue/Funding Source										
General Capital Fund Balance	0	0	0	150,000	0	0	0	0	0	150,000
	0	0	0	150,000	0	0	0	0	0	150,000
Project Description/Justification										

Currently, the county operates two diesel fuel sites – Facility Maintenance in Newton and Hickory EMS Base in Hickory. In the future, Hickory EMS Base will be closed and sold, which will result in the loss of the fuel site. This means county vehicles (ambulances) will have to drive from Hickory to Newton to obtain fuel. This will result in wasted fuel (driving between Newton and Hickory) as well EMS units having to leave their response areas more frequently which results in increased response time. Hickory Fire Department faces a similar situation with their vehicle having to travel to the north side of the city to get fuel. Hickory Fire and EMS are proposing a joint fuel depot to be located at Hickory Fire Station 7. This site is easily accessible to the Propst, Mt. View, Hickory, and St. Stephens EMS crews as well as other crews that are leaving from Frye Regional Medical Center.

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Project Name Hickory Rescue Base 2 Addition for EMS
Project Service Area Public Safety
Project Department Emergency Services

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	230,000	0	0	0	0	0	0	230,000
	0	0	230,000	0	0	0	0	0	0	230,000
Revenue/Funding Source										
General Capital Fund Balance	0	0	230,000	0	0	0	0	0	0	230,000
	0	0	230,000	0	0	0	0	0	0	230,000
Project Description/Justification										

The Mountain View area of the County is in need of additional EMS coverage because of an increase in call volume, population, and traffic density. These factors all affect the response time criteria of 8 minutes, set by the Board of Commissioners. Funds are allocated to build an addition to an existing structure in the Mountain View area to enable a new EMS crew to stage in that location. The addition of the Mountain View crew will allow the EMS crew stationed at Prost to move further south so it can cover more area in the County it currently has difficulties getting to in less than 8 minutes. The addition would total 1000 square feet which would include bay space (500 sq. ft.), dayroom (300 sq. ft.), medical supply room (100 sq. ft.), and office (100 sq. ft.) at a projected cost of \$200 per square foot.

Building operating costs are anticipated to be roughly \$7,000 beginning in Fiscal Year 2013/14. Two FTEs (\$103,645) planned in Fiscal Year 2012/13, which will require an ambulance and the associated equipment (\$150,000) since it is a new crew. Two FTEs are planned in Fiscal Year 2013/14 (\$110,584) along with four FTEs (\$225,091) in Fiscal Year 2014/15.

CAPITAL IMPROVEMENT PLAN
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Project Name Hickory Rescue Squad Project (12024)
Project Service Area Public Safety
Project Department Emergency Services

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	1,300,000	0	0	0	0	0	0	0	0	1,300,000
	1,300,000	0	0	0	0	0	0	0	0	1,300,000
Revenue/Funding Source										
General Fund	332,553	0	0	0	0	0	0	0	0	332,553
General Capital Fund Balance	967,447	0	0	0	0	0	0	0	0	967,447
	1,300,000	0	0	0	0	0	0	0	0	967,447

Project Description/Justification

This project addresses future Rescue Squad building needs as a result of the Emergency Services Plan implementation. The total cost is projected to be \$1,300,000. \$387,447 was budgeted in Fiscal Year 2007/08 from the closed Oxford EMS Base project and \$332,553 was budgeted from the general fund in Fiscal Year 2008/09.

The Hickory Rescue Squad is responsible for the building operating costs.

CAPITAL IMPROVEMENT PLAN
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Project Name Jail Addition (adds 128 beds) (12002)
Project Service Area Public Safety
Project Department Sheriff

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	550,000	250,000	250,000	250,000	250,000	4,650,000	0	0	0	6,200,000
	550,000	250,000	250,000	250,000	250,000	4,650,000	0	0	0	6,200,000
Revenue/Funding Source										
Debt Financing	0	0	0	0	0	4,650,000	0	0	0	4,650,000
Federal Bed Rental	400,000	250,000	250,000	250,000	250,000	0	0	0	0	1,400,000
Local Bed Rental	150,000	0	0	0	0	0	0	0	0	150,000
	550,000	250,000	250,000	250,000	250,000	4,650,000	0	0	0	6,200,000

Project Description/Justification

Based on 195 average daily population when the new jail expansion opened and an average of 5% annual growth, we could reach capacity by Fiscal Year 2013/14. Construction of a 128-bed expansion is planned in Fiscal Year 2014/15 with the facility opened to inmates in Fiscal Year 2015/16. \$150,000 was included in Fiscal Year 2007/08 for a total project cost of \$6,200,000.

Operating costs are anticipated to increase roughly \$1.5 million per year in Fiscal Year 2017/18 plus debt payments of roughly \$505,000 are anticipated in Fiscal Year 2015/16.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name Justice Center/Court Expansion (12001)
Project Service Area Public Safety
Project Department Public Safety

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	25,542,707	1,990,580	0	0	0	0	0	0	0	27,533,287
	25,542,707	1,990,580	0	0	0	0	0	0	0	27,533,287
Revenue/Funding Source										
1/4 cent sales tax	5,542,707	1,990,580	0	0	0	0	0	0	0	7,533,287
Debt Financing	20,000,000	0	0	0	0	0	0	0	0	20,000,000
General Capital Fund Balance	0	0	0	0	0	0	0	0	0	0
	25,542,707	1,990,580	0	0	0	0	0	0	0	27,533,287

Project Description/Justification

The Justice Center is almost 30 years old and no longer provides adequate space for our courts. An expansion is planned to add more space for courts and court related functions. The project will also fund technology for new and existing courtrooms. Construction is planned to begin in Fiscal Year 2009/10. Fiscal Year 2008/09 funding includes \$2,200,000 of the 1/4 cent sales tax plus \$664,310 transferred out of a previously established project. Debt financing for the project is planned in Fiscal Year 2009/10 in the amount of \$20,000,000 for a total project cost of \$22,864,310. Since a debt payment will not be necessary in Fiscal Year 2009/10, funds from the 1/4 cent sales are reserved in the project for future debt payments and unanticipated costs.

Building operating costs are anticipated to increase as a result of the expanded facility but will be determined by the architect plans being developed in Fiscal Year 2009/10 and are therefore not projected here. Debt service payments of \$2.2 million are anticipated beginning in Fiscal Year 2011/12 funded by dedicated revenue from the 1/4 cent sales tax approved by voters in November 2007.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name	Library Management System
Project Service Area	Culture
Project Department	Library

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	0	0	250,000	0	0	250,000
	0	0	0	0	0	0	250,000	0	0	250,000
Revenue/Funding Source										
General Fund	0	0	0	0	0	0	250,000	0	0	250,000
General Capital Fund Balance	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	250,000	0	0	250,000

Project Description/Justification

The Library needs to enhance and update services provided to patrons through the County's website to provide excellent library service. Improvements have been made in library software used to manage and provide access to electronic content. Newer technology allows patrons to use relevant-ranked search results and end-user rating or "tagging." Catawba County Library is planning for acquisition of up-to-date technology so that library materials continue to be easily accessible to library users. Newer technology would improve management of patron requests for materials.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name Microsoft Licensing (11022)
Project Service Area Economic & Physical Development
Project Department Technology

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	Ongoing	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,600,000
	0	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,600,000
Revenue/Funding Source										
General Fund	0	0	0	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000
General Capital Fund Balance	Ongoing	200,000	200,000	0	0	0	0	0	0	400,000
	0	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,600,000

Project Description/Justification

The County must purchase Microsoft software licenses in order to use the software. The Information Technology Center has developed a long-term plan to keep the County in compliance. Microsoft products include operating systems, security systems, e-mail management, database management, and desktop publishing. This will be a recurring cost.

For 2009/10, it is being funded through general capital fund balance. The annual licensing agreement covers maintenance as a part of the costs budgeted here.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name Mobile Workforce (11027)
Project Service Area Economic & Physical Development
Project Department Technology

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	Ongoing	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	400,000
	0	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	400,000
Revenue/Funding Source										
General Fund	0	0	0	50,000	50,000	50,000	50,000	50,000	50,000	300,000
General Capital Fund Balance	Ongoing	50,000	50,000	0	0	0	0	0	0	100,000
	0	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	300,000

Project Description/Justification

Many duties performed by County employees require them to be away from an office environment. Keeping them in the field more hours reduces cost and provides better service for the public. Mobile workers are defined as those who perform their duties in the field on a regular basis. To date, funding for this project has enabled a mobile workforce in areas such as Environmental Health, EMS, Sheriff, Building Inspections, School Nurses, Home Health nurses and Animal Control. We will continue to enhance the capabilities in Emergency Services and Sheriff with GPS and Vision Mobile using current project funds.

Future funds will allow us to expand in other areas such as Maintenance, Tax Appraisal, Code Enforcement, and Fire Marshal. Supporting a mobile workforce requires technology resources both in the field and internally. Funds will be used for hardware and software expansions to support additional mobile workers.

Flexibility and mobility are hallmarks of the workforce of the future. As we expand this capability, we will need to expand hardware and software accordingly.

Maintenance costs and replacement equipment related to the Mobile Workforce project are included in the Technology Department's operating budget each year.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name Multi-Jurisdictional Park (GC3)
Project Service Area Economic & Physical Development
Project Department Technology

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	200,000	0	0	0	0	0	0	0	200,000
	0	200,000	0	0	0	0	0	0	0	200,000
Revenue/Funding Source										
General Fund	0	200,000	0	0	0	0	0	0	0	200,000
	0	200,000	0	0	0	0	0	0	0	200,000

Project Description/Justification

The Multi-Jurisdictional Park is designed to be a joint venture between Catawba County and its municipalities, focusing on server farms.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name	Orthophoto Upgrade
Project Service Area	Economic & Physical Development
Project Department	Technology

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	Every 4 years	0	0	135,000	0	0	0	145,000	0	280,000
		0	0	135,000	0	0	0	145,000	0	280,000
Revenue/Funding Source										
E-911 Fund	Every 4 years	0	0	102,465	0	0	0	108,750	0	211,215
Municipalities	Every 4 years	0	0	32,535	0	0	0	36,250	0	68,785
		0	0	135,000	0	0	0	145,000	0	280,000

Project Description/Justification

In Fiscal Year 2012/13, GIS will update aerial photography. Project costs include a contract to update aerial photos, administration costs, and purchasing additional disk storage. Aerial photography has consistently been updated every four years, which coincides with the re-evaluation schedule. In addition, as part of the regional ortho project, the participants agreed to update as a group every 4 years. Maintaining that schedule, the next fly-over will take place in spring 2013 and then again in spring 2017. A total of \$135,000 is budgeted in Fiscal Year 2012/13. The County will fund the project as follows: \$32,535 from municipalities and \$102,465 from the Emergency Telephone Fund. In Fiscal Year 2016/17 the flyover is projected to cost \$145,000 funded as follows: \$36,250 from municipalities and \$108,750 from the Emergency Telephone Fund.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name Parks (18020)
Project Service Area Economic & Physical Development
Project Department Planning, Parks, & Development

Project Budget	Prior Year	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	450,000	0	580,000	850,000	300,000	0	550,000	0	0	2,730,000
	450,000	0	580,000	850,000	300,000	0	550,000	0	0	2,730,000
Revenue/Funding Source										
Debt Financing	0	0	0	0	0	0	0	0	0	0
General Fund	300,000	0	0	350,000	100,000	0	275,000	0	0	1,025,000
General Capital Fund Balance	150,000	0	290,000	0	0	0	0	0	0	440,000
DOT Grant	0	0	0	0	50,000	0	0	0	0	50,000
County Parks Trust Fund	60,000	0	0	0	0	0	0	0	0	60,000
Parks and Recreation Trust Fund	0	0	290,000	500,000	0	0	275,000	0	0	1,065,000
Carolina Thread Trail (CTT)	0	0	0	0	150,000	0	0	0	0	150,000
	510,000	0	580,000	850,000	150,000	0	550,000	0	0	2,790,000

Project Description/Justification

These funds will be combined with grants and moneys in the Parks Trust Fund to expand park facilities in the County. The 8-year Capital Improvement Plan for Parks helps implement the Parks Master Plan adopted by the Commissioners in December 2007. Actual opening of any new park is uncertain at the moment dependent upon grant opportunities to fund the actual development. The size and operational needs of the parks are also dependent upon grant availability and timing. The parks planned during the current 8-year CIP cycle are Bunker Hill and Mountain Creek. It is recommended that staff pursue grant funds for the Bunker Hill Park in January 2011 in order to develop the park ensuring on-site security, maintenance and maximum utility of the site. Due to the delay in the release of Clean Water Trust Fund Grant (CWMTF) funds for Mountain Creek, the closing on the property has been set back to a deadline of December 31, 2010. Based upon this delay, staff would request a second 18-month PARTF waiver from the state. This waiver, if granted, would allow the County to count the CWMTF grant as a match for a future PARTF grant in order to develop the Mountain Creek Park. The PARTF grant would be pursued in January 2012.

The following is a breakdown of requested CIP by each park:

FY2011/12: \$580,000 for Bunker Hill including acquiring property, installing a restroom, office and community meeting room, building an access road and parking lot, constructing a dog park and shelter, and purchasing site amenities such as picnic tables.

FY2012/13: \$850,000 for Mountain Creek (Phase I) including utilities, installing a restroom and office, building an access road and parking lot, constructing a dog park and shelters, and creating trails and canoe and fishing pier access.

FY2013/14: \$300,000 for Mountain Creek (Phase II) that is dedicated for Greenway acquisition and construction as part of the Carolina Thread Trail.

FY2015/16: \$550,000 for Mountain Creek (Phase II) including building an access road and parking extension, constructing shelters, creating trails and construction of a community meeting room.

FY2018/19: \$925,000 for Mountain Creek (Phase III) including utilities, building of stream crossing or northern access road, construction of a primitive camping area, creation of trails, construction of picnic shelters, and construction of a residence for park ranger.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name	PeopleSoft Replacement
Project Service Area	Economic & Physical Development
Project Department	Technology

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	50,000	50,000	0	500,000	500,000	0	0	0	1,100,000
	0	50,000	50,000	0	500,000	500,000	0	0	0	1,100,000
Revenue/Funding Source										
General Fund	0	0	0	0	500,000	500,000	0	0	0	1,000,000
General Capital Fund Balance	0	50,000	50,000	0	0	0	0	0	0	100,000
	0	50,000	0	0	500,000	500,000	0	0	0	1,000,000

Project Description/Justification

PeopleSoft is the main application serving our core functions of Finance and Human Resources. Both of these areas are constantly changing to provide better services and to meet state and federal reporting requirements. We are also using this as the platform for our enterprise architecture. It is imperative that this system remain up-to-date to meet the needs of the organization. PeopleSoft was bought out by Oracle and will be maintained but will not include major changes. It will be rolled into a new product called Fusion, the next generation of PeopleSoft. In order to remain current in functionality and abilities, the County should plan to replace PeopleSoft applications within the next five years.

Maintenance costs are part of the Technology Department's budget and current annual allocations are anticipated to be sufficient to cover future costs.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name	Permitting Software/Hardware (14014)
Project Service Area	Economic & Physical Development
Project Department	Technology

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	100,000	100,000	100,000	100,000	100,000	100,000	600,000
	0	0	0	100,000	100,000	100,000	100,000	100,000	100,000	600,000
Revenue/Funding Source										
General Fund	0	0	0	100,000	100,000	100,000	100,000	100,000	100,000	600,000
General Fund (Mental Health Indirect Cost)	0	0	0	0	0	0	0	0	0	0
	0	0	0	100,000	100,000	100,000	100,000	100,000	100,000	600,000

Project Description/Justification

The County is in the process of replacing the Permitting and Inspections system currently used for processing inspections in Utilities & Engineering, Environmental Health, Planning and Zoning, and the Fire Marshal's Office, the Tax Office, GIS, Legal Services, and Finance also use the systems to provide services. The Fiscal Year 2008/09 budget included \$700,000 for the project. This will update a system that is becoming antiquated and allow new functionality such as increased information sharing, online permitting and payments, workflow, automatic inspection status updates, and increased GIS integration. In recognition of the fact that this system will need to be upgraded in 8-10 years, we will begin setting aside \$100,000 annually for future upgrades in Fiscal Year 2011/12. Money will not be set aside in Fiscal Year 2009/10 for two reasons. The first reason is the loss in sales tax revenue and property tax revenue. The second is because the current system is being upgraded now and just started its 8-10 year life cycle.

Maintenance costs are part of the Technology Department's budget and current annual allocations are anticipated to be sufficient to cover future costs.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name Pictometry Photos
Project Service Area Economic & Physical Development
Project Department Technology

Project Budget	Prior Year	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	Every 4 Years	0	0	105,000	0	0	0	115,000	0	220,000
	0	0	0	105,000	0	0	0	115,000	0	220,000
Revenue/Funding Source										
Municipalities	Every 4 Years	0	0	26,250	0	0	0	28,750	0	55,000
General Fund	Every 4 Years	0	0	78,750	0	0	0	86,250	0	55,000
	0	0	0	105,000	0	0	0	115,000	0	110,000

Project Description/Justification

Pictometry will provide photos of structures with 5 directional views. This type of photography goes over and above the current orthophotos with side angle views of each structure. Emergency Services and the Sheriff's Department in particular will find it valuable to see buildings from several angles when responding to calls. These photos will also provide a benefit to the Economic Development Commission by providing pictures of property to prospective clients from several views.

As this service also provides a benefit to municipalities, 25% of the cost will come from municipalities. The remainder will be funded from the general fund.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name	Public Safety Center (includes Newton EMS) (12029)
Project Service Area	Public Safety
Project Department	Public Safety

Project Budget	Prior Year	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	7,202,559	395,854	0	0	0	0	0	0	0	7,598,413
	7,202,559	395,854	0	0	0	0	0	0	0	7,598,413
Revenue/Funding Source										
E-911 Fund	2,000,000	0	0	0	0	0	0	0	0	2,000,000
1/4 cent sales tax	970,059	395,854	0	0	0	0	0	0	0	1,365,913
Debt Financing	3,612,500	0	0	0	0	0	0	0	0	3,612,500
General Capital Fund Balance	620,000	0	0	0	0	0	0	0	0	620,000
	7,202,559	395,854	0	0	0	0	0	0	0	5,598,413

Project Description/Justification

This project funds a new Public Safety Center. The 911 Emergency Communications Center and Emergency Operations Center (EOC) are completely out of room and power in the Justice Center. Newton EMS Base is located in the Agricultural Resources Building (ARC) which is extremely old and no longer meets their needs. A new facility will be built to house these critical Public Safety Functions as well as the Emergency Services administrative offices, Fire/Rescue Division, Newton EMS Base, and possibly space for Newton-Conover Rescue. \$500,000 is being transferred from a previously established project for a total project cost of \$6,670,000.

Building operating costs are anticipated to increase for utilities as a result of the expanded facility but will be determined by the architect plans being developed in Fiscal Year 2009/10 and are therefore not projected here. Annual debt service payments are anticipated beginning in Fiscal Year 2011/12 of \$400,000 per year funded by dedicated revenue from the 1/4 cent sales tax approved by voters in November 2007.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name Public Health Billing Software
Project Service Area Human Services
Project Department Public Health

Project Budget	Prior Year	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	110,000	0	0	0	0	0	0	0	110,000
	0	110,000	0	0	0	0	0	0	0	110,000
Revenue/Funding Source										
General Capital Fund Balance	0	110,000	0	0	0	0	0	0	0	110,000
	0	110,000	0	0	0	0	0	0	0	110,000

Project Description/Justification

The billing software used by Public Health is outdated and in need of replacement. This would allow an update to Insight, a software system specific to Public Health. The department's current system, CMHC, is a mental health product manipulated and made to work for Public Health; however, it is still lacking the clinical components of a Public Health system. Public Health has been waiting on the state to develop a new billing system known as HIS but this system has major flaws and its future use and reliability is uncertain. The Insight system will provide a robust system in the tracking of and follow-up with claims.

Ongoing operating costs are expected to be around \$10,000 per year but these are already accounted for in the current budget.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name	Quantar Base Station Upgrade
Project Service Area	Economic & Physical Development
Project Department	Emergency Services

Project Budget	Prior Year	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	150,000	0	0	0	0	0	0	150,000
	0	0	150,000	0	0	0	0	0	0	150,000
Revenue/Funding Source										
General Capital Fund Balance	0	0	150,000	0	0	0	0	0	0	150,000
	0	0	150,000	0	0	0	0	0	0	150,000

Project Description/Justification

In Fiscal Year 2010/11, the current Quantar Base Stations, used for dispatching Fire, EMS, and Rescue, will be at least 16 years old. These will no longer be supported and, due to life expectancy, will need to be replaced.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name	SAN Virtual Server
Project Service Area	Economic & Physical Development
Project Department	Technology

Project Budget	Prior Year	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	125,000	125,000	125,000	125,000	125,000	125,000	125,000	875,000
	0	0	125,000	125,000	125,000	125,000	125,000	125,000	125,000	875,000
Revenue/Funding Source										
General Fund	0	0	125,000	125,000	125,000	125,000	125,000	125,000	125,000	875,000
	0	0	125,000	125,000	125,000	125,000	125,000	125,000	125,000	875,000

Project Description/Justification

The is project is a continued investment in SAN/Disaster Recovery technology to meet growing storage needs. As we continue to collect data and information at an exponential rate, and subsequently store that data within the information systems, computing resources become strained. We have invested in a Storage Area Network (SAN) in order to house the data off the main technology resources, thereby extending their usefulness and reducing future expansion costs. By building on this platform in the future and consolidating servers and storage, we will save over \$354,000 over a five year period.

County had planned to begin setting aside funds in Fiscal Year 2009/10 for future SAN replacement. This is not critical at this point. The current SAN is funded by debt which is built into the Technology Department base budget. The SAN upgrade could be financed, when it becomes necessary, with these ongoing debt funds. Ongoing maintenance funds are part of the Technology Department's budget.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name Sherrills Ford Library (18018)
Project Service Area Culture
Project Department Library

Project Budget	Prior Year	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	1,125,000	375,000	0	0	0	0	0	0	0	1,500,000
	1,125,000	375,000	0	0	0	0	0	0	0	1,500,000
Revenue/Funding Source										
General Fund	750,000	0	0	0	0	0	0	0	0	750,000
General Capital Fund Balance	375,000	375,000	0	0	0	0	0	0	0	750,000
	1,125,000	375,000	0	0	0	0	0	0	0	1,500,000

Project Description/Justification

A Library System Master Plan has been completed identifying needs with regards to space, operating efficiencies, and location issues. \$375,000 is planned for Fiscal Years 2007/08 through 2010/11 for a new branch library facility in Sherrills Ford. The total estimated construction cost for the Sherrills Ford branch is \$1,500,000 with land donated as part of the Crescent Development agreement. These funds would come from the General Fund and Library reinventing funds.

This is a relocation of an existing branch to an expanded facility. The exact size and timing of the facility is uncertain at the moment as Friends of the Sherrills Ford Library are trying to raise funds to also provide community meeting space and a privately operated coffee shop. Construction will also be timed with development of the Village Center in order to reduce road and utility infrastructure costs. For these reasons operating costs are not projected here.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name	Tax System (11021)
Project Service Area	Economic & Physical Development
Project Department	Technology

Project Budget	Prior Year	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	215,000	0	175,000	0	0	0	0	0	0	390,000
	215,000	0	175,000	0	0	0	0	0	0	390,000
Revenue/Funding Source										
General Capital Fund Balance	20,000	0	175,000	0	0	0	0	0	0	195,000
General Fund (MH Indirect Cost)	195,000	0	0	0	0	0	0	0	0	195,000
	215,000	0	175,000	0	0	0	0	0	0	390,000

Project Description/Justification

This project allocates funds to upgrade the Tax System. Our service contract with our current software provider requires us to remain within 2 versions of the latest versions of the software. A new version of the Billing and Collection modules was anticipated to be released in Fiscal Year 2009/10 followed by a new version of the Land Records/CAMA package beginning in FY 2010/11; however, this is behind schedule. As a result, expenses for the upgrades will be phased in and will begin to be incurred in FY 2011/12.

Maintenance costs are part of the Technology Department's budget and current annual allocations are anticipated to be sufficient to cover future costs.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name Sherrills Ford Fire Department Addition for EMS
Project Service Area Public Safety
Project Department Emergency Services

Project Budget	Prior Year	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	0	0	318,000	0	0	318,000
	0	0	0	0	0	0	318,000	0	0	318,000
Revenue/Funding Source										
General Fund	0	0	0	0	0	0	318,000	0	0	318,000
	0	0	0	0	0	0	318,000	0	0	318,000

Project Description/Justification

The southeastern part of the County is in need of additional EMS coverage because of an increase in call volume, population, and traffic density. These factors all affect the response time criteria of 8 minutes, set by the Board of Commissioners. Funds are allocated to perform necessary renovations to the Sherrills Ford Fire Department to house a new EMS crew in that location.

Building operating costs for the facility are anticipated to be roughly \$7,500 beginning in Fiscal Year 2016/17.

CAPITAL IMPROVEMENT PLAN
General Capital Projects
Fiscal Years 2010/11 through 2017/18

Project Name Technology Infrastructure Upgrades (11202)
Project Service Area Economic & Physical Development
Project Department Technology

Project Budget	Prior Year	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	Ongoing	150,000	150,000	200,000	200,000	200,000	200,000	200,000	200,000	1,500,000
	0	150,000	150,000	200,000	200,000	200,000	200,000	200,000	200,000	1,500,000
Revenue/Funding Source										
General Fund	0	0	150,000	200,000	200,000	200,000	200,000	200,000	200,000	1,350,000
General Capital Fund Balance	Ongoing	150,000	0	0	0	0	0	0	0	150,000
	0	150,000	150,000	200,000	200,000	200,000	200,000	200,000	200,000	1,500,000

Project Description/Justification

The Technology Department provides automation services to all County departments with an extensive network that encompasses wired communications, fiber communications, wireless communications, cable modem and dial-up communications. The components of these systems must continually be replaced or upgraded to ensure that the County can continue to conduct business in an efficient and effective manner. Funds will be committed each year for ongoing infrastructure upgrades, to enhance building wireless capabilities, and reserve funds to develop a high speed mobile wireless solution. Over the next few years there are plans to provide high speed data access to emergency vehicles and remote agencies that will allow robust applications such as video camera access in public and private buildings, video streaming from the vehicles to the 911 Emergency Communications Center, GIS layer access for utilities, and CAD drawings to buildings. We also plan to establish wireless network capabilities in the Library to enhance service to the public and wireless phone capabilities.

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriations										
Operating	0	292,002	197,762	203,695	209,806	216,100	222,583	229,260	236,138	1,807,346
Molly's Backbone/Monbo Road/Long Island Roads Water	0	0	0	695,000	0	0	1,000,000	0	600,000	2,295,000
Southeastern Catawba County (SECC) Water Improvements	251,435	0	0	0	0	0	0	0	0	251,435
Hickory-Catawba Wastewater Treatment Plant Expansion	4,000,000	0	0	0	0	0	0	0	0	4,000,000
Southeastern Catawba County (SECC) Wastewater Service	304,498	0	0	0	0	0	0	0	0	304,498
Highway 150 Sewer	9,660,000	0	0	0	0	0	0	0	0	9,660,000
Highway 150 Sewer Phase II & III	0	1,205,000	815,400	0	0	2,033,000	0	0	0	4,053,400
Stormwater Layers - Flyover	99,930	0	0	0	0	0	0	0	0	99,930
Blackburn Elementary Sewer Extension	580,000	0	0	0	0	0	0	0	0	580,000
Heatherbrook Subdivision Water	325,000	0	0	0	0	0	0	0	0	325,000
Highway 16 North Water	0	370,000	0	0	0	0	0	0	0	370,000
Riverbend Road Water Phase I, II & III	0	0	657,000	0	0	0	0	840,000	730,000	2,227,000
Rock Barn Road/Oxford School Road Water Loop	0	0	445,000	0	0	0	0	0	0	445,000
Smyre Farm Road Water	0	0	0	0	0	0	0	0	0	0
Bandys/Mill Creek Sewer	0	0	0	0	0	0	600,000	2,000,000	2,000,000	4,600,000
Blackburn-Plateau Water Loop	3,600,000	0	0	0	0	0	0	0	0	3,600,000
Farmfield Acres Water	0	0	0	0	230,000	0	0	0	0	230,000
Mt. View Elementary Sewer I & II	30,000	0	0	3,000,000	3,000,000	0	0	0	0	6,030,000
Oxford Park/Rockett Terrace Water	0	0	0	0	0	0	465,000	0	0	465,000
Springs Road Water	0	0	0	0	470,000	0	0	0	0	470,000
Biosolids Management Facility	516,389	0	0	275,000	275,000	275,000	275,000	275,000	275,000	2,166,389
EcoComplex and Resource Recovery Facility	300,000	300,000	300,000	100,000	0	0	0	0	0	1,000,000
EcoComplex Utilities	0	75,000	0	0	0	0	0	0	0	75,000
EPA Stormwater Phase II	125,000	25,000	25,000	0	0	0	0	0	0	175,000
NPDES Testing & Removal	12,000	0	0	0	0	0	0	0	0	12,000
Sludge Compost Facility	682,707	350,000	350,000	350,000	0	0	0	0	0	1,732,707
Future Projects	0	0	0	0	0	0	0	0	0	0
	20,486,959	2,617,002	2,790,162	4,623,695	4,184,806	2,524,100	2,562,583	3,344,260	3,841,138	46,974,705
Funding Source										
Installment Purchase Obligations Issued		1,205,000	815,400			0				2,020,400
General Fund (1.5 cent of ad valorem tax) with 1% growth in 12/13		2,250,000	2,250,000	2,272,500	2,295,225	2,318,177	2,341,359	2,364,773	2,388,420	18,480,454
General Fund (1/4 cent sales tax) with 1% growth in 12/13		1,369,502	1,369,502	1,383,197	1,397,029	1,410,999	1,425,109	1,439,360	1,453,754	11,248,453
Domestic Haulers with 1% growth in 12/13		40,052	40,052	40,453	40,857	41,266	41,678	42,095	42,516	328,969
Capital Fees-Water and Sewer with 1% growth in 12/13		75,000	75,000	75,750	76,508	77,273	78,045	78,826	79,614	616,015
Key Harbor Development Agreement beginning in Year 5		0	0	600,000	600,000	600,000	600,000	600,000	600,000	3,600,000
Revenue Sharing Contracts with 1% growth in 12/13		336,345	336,345	339,708	343,106	346,537	350,002	353,502	357,037	2,762,582
Revolving Loan Payments from Municipalities		112,646	82,720	52,564	52,564	52,564	40,940	40,940	40,940	475,878
State Grants (For Bunker Hill-Oxford Sewer)		600,000								

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name Bandys/Mill Creek Sewer
Project Service Area Southeastern Catawba County
Project Department Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	0	0	600,000	2,000,000	2,000,000	4,600,000
	0	0	0	0	0	0	600,000	2,000,000	2,000,000	4,600,000
Revenue/Funding Source										
Water & Sewer Fund	0	0	0	0	0	0	600,000	2,000,000	2,000,000	4,600,000
	0	0	0	0	0	0	600,000	2,000,000	2,000,000	4,600,000

Project Description/Justification

This project will connect Bandy's High School and Mill Creek Middle School to the Southeastern Catawba County (SECC) Sewer System and will remove existing National Pollutant Discharge Elimination System (NPDES) discharges associated with these schools. Financing for this project will be derived primarily from ad valorem and sales tax dollars dedicated to the Water & Sewer Fund.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name Biosolids Management Facility
Project Service Area Catawba County
Project Department Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	275,000	275,000	275,000	275,000	275,000	275,000	1,650,000
	0	0	0	275,000	275,000	275,000	275,000	275,000	275,000	1,650,000
Revenue/Funding Source										
Water & Sewer Fund	0	0	0	275,000	275,000	275,000	275,000	275,000	275,000	1,650,000
	0	0	0	275,000	275,000	275,000	275,000	275,000	275,000	1,650,000

Project Description/Justification

This project is the operations, maintenance and capital expenses for the Biosolids Management Facility, when the Sludge Composting Facility is closed. Financing for this project will be derived primarily from ad valorem and sales tax dollars dedicated to the Water & Sewer Fund as well as any domestic hauler fees.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name Blackburn Elementary School Sewer Extension (22015)
Project Service Area Highway 10 West and Hickory-Lincolnton Highway
Project Department Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Revenue/Funding Source										
Water & Sewer Fund	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

Project Description/Justification

This project will provide municipal sewer service by extending a sewer line from the existing line located at the interesection of Highway 10 and Hickory-Lincolnton Highway. It will serve Blackburn Elementary School and other properties along the route. Financing for this project will be derived primarily from ad valorem and sales tax dollars dedicated to the Water & Sewer Fund as well as any capital fees associated with customers tapping into the line.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name Blackburn-Plateau Water Supply Loop
Project Service Area Southwestern Catawba County
Project Department Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Revenue/Funding Source										
Water & Sewer Fund	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

Project Description/Justification

This project was separated into two phases in the Capital Improvement Plan; a Blackburn Bridge Road project and a Wilfong Road project, scheduled for 2012 and 2013, respectively. This combined project will provide municipal water to the proposed Propst Cross Road Fire Department, municipal water along the western and southern boundaries of the Blackburn Landfill, municipal water and fire protection to a proposed economic development project, the expansion of Catawba Valley Mills Manufacturing Facility (Ashfar Enterprises, Inc.), and municipal water and fire protection to a proposed economic development project at the intersection of Startown Road and US Highway 321. The project will also provide a necessary supply loop to future businesses, and a secondary water supply loop to the Town of Maiden and the Southeast Catawba County Water Supply System, in the event of a problem with the City of Hickory water supply main on Startown Road. \$180,600 was expended during FY2008/09 for the design of the project. Staff is accelerating the design of this project to be fully prepared for an expected Federal stimulus package. Based on the stimulus package requirements, this project represents the ideal infrastructure project due to its blend of economic development, job creation, environmental improvements, and drinking water provisions and fire protection. This project is financed primarily through Federal stimulus money. \$1,500,000 is in the form of a grant and another \$1,500,000 is in the form of a 0% loan with a repayment schedule of 20 years. The debt service payments and remaining cost of construction will be paid for from ad valorem and sales dollars dedicated to the Water & Sewer Fund as well as any capital fees associated with residents or business tapping into the service line.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name EcoComplex and Resource Recovery Facility (20104)
Project Service Area Catawba County
Project Department Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	300,000	300,000	100,000	0	0	0	0	0	700,000
	0	300,000	300,000	100,000	0	0	0	0	0	700,000
Revenue/Funding Source										
Water & Sewer Fund	0	300,000	300,000	100,000	0	0	0	0	0	700,000
	0	300,000	300,000	100,000	0	0	0	0	0	700,000

Project Description/Justification

The goal of this project is to develop a multi-component system, which includes a Regional Biosolids facility that will recover all useable products and by-products from a group of private and public partners who are located in a close knit defined area, the EcoComplex. This group of partners will work together to use each other's waste products either as a source of energy (electricity, steam, or heat) or as a raw material for the production of their own product (pallets, lumber, compost, brick shapes/art). These shared relationships bring the old saying of "one man's trash is another man's treasure" into real life. In addition to these shared relationships, the EcoComplex is also focused on making and using "green" energy and on the economic development of Catawba County. Since the project's dynamics crosses boundaries relating to water and sewer and solid waste management funding is shared between the two funds.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name EcoComplex Utilities
Project Service Area Catawba County
Project Department Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	75,000	0	0	0	0	0	0	0	75,000
	0	75,000	0	0	0	0	0	0	0	75,000
Revenue/Funding Source										
Water & Sewer Fund	0	75,000	0	0	0	0	0	0	0	75,000
	0	75,000	0	0	0	0	0	0	0	75,000

Project Description/Justification

This project will provide analysis of the water and sewer utilities including wastewater discharge reuse that will serve the EcoComplex and its components for a 30-year period. This analysis will be used to determine which source(s) will have adequate capacity and means to provided the needed flows and treatment services and at the lowest cost.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name EPA Stormwater Phase II (20017)
Project Service Area Catawba County
Project Department Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	25,000	25,000	0	0	0	0	0	0	50,000
	0	25,000	25,000	0	0	0	0	0	0	50,000
Revenue/Funding Source										
Water & Sewer Fund	0	25,000	25,000	0	0	0	0	0	0	50,000
	0	25,000	25,000	0	0	0	0	0	0	50,000

Project Description/Justification

The State approved the Stormwater Phase II Regulations to take effect July 1, 2007. Funds are needed for the development and implementation of a local program to comply with State and Federal mandates. Financing for this project will be derived primarily from ad valorem and sales tax dollars dedicated to the Water & Sewer Fund.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name Farmfield Acres Water
Project Service Area Northern Catawba County
Project Department Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	230,000	0	0	0	0	230,000
	0	0	0	0	230,000	0	0	0	0	230,000
Revenue/Funding Source										
Water & Sewer Fund	0	0	0	0	230,000	0	0	0	0	230,000
	0	0	0	0	230,000	0	0	0	0	230,000

Project Description/Justification

This project was initiated through a citizen petition and will provide municipal water service to 56 existing lots and 46 acres of potential residential development. Financing for this project will be derived primarily from ad valorem and sales tax dollars dedicated to the Water & Sewer Fund as well as any capital fees associated with customers tapping into the line.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name Stormwater Layers - Flyover (20103)
Project Service Area Catawba County
Project Department Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Revenue/Funding Source										
Water & Sewer Fund	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

Project Description/Justification

Flyover County for Layers Captured on Orthophoto, Transportation and Impervious Surfaces.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name	Heatherbrook Subdivision Water (21030)
Project Service Area	Highway 10 and Hickory-Lincolnton Highway
Project Department	Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Revenue/Funding Source										
Water & Sewer Fund	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

Project Description/Justification

This project provides water to the Heatherbrook Subdivision off of NC Highway 10 West. This project was initiated by a petition from the residents of the subdivision. This project will provide water service to 44 residential lots. Financing for this project will be derived primarily from ad valorem and sales tax dollars dedicated to the Water & Sewer Fund as well as any capital fees associated with customers tapping into the line.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name	Hickory-Catawba Wastewater Treatment Plant Expansion (21028)
Project Service Area	Southeastern and Northern Catawba County
Project Department	Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Revenue/Funding Source										
Water & Sewer Fund	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

Project Description/Justification

The County's portion of this expansion is estimated to cost \$3.75 million. Funding will be determined later through interlocal agreement.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name Highway 16 North Water
Project Service Area Northern Catawba County
Project Department Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	370,000	0	0	0	0	0	0	0	370,000
	0	370,000	0	0	0	0	0	0	0	370,000
Revenue/Funding Source										
Water & Sewer Fund	0	370,000	0	0	0	0	0	0	0	370,000
	0	370,000	0	0	0	0	0	0	0	370,000

Project Description/Justification

This project will be performed in cooperation with the Cities of Conover and Hickory and will be the first phase of the River Bend Road water loop which will provide a much needed potable drinking water, enhanced fire protection and supply redundancy in the northeastern portion of the County. This phase will provide water service north along Highway 16 from Shell Hollar Road to St Peters Church Road and will also provide a much needed inter-connect between the Hickory and Conover water systems to help maintain water quality. Financing for this project will be derived primarily from ad valorem and sales tax dollars dedicated to the Water & Sewer Fund as well as any capital fees associated with customers tapping into the line.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name Highway 150 Sewer (SECC WW Southern Section) (21031)
Project Service Area Southeastern Catawba County
Project Department Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Revenue/Funding Source										
Water & Sewer Fund	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

Project Description/Justification

The SECC Wastewater Collection System project will provide a safe and economical means of wastewater disposal and treatment for Sherrills Ford Elementary School, area property owners, and future economic development. This project benefits all citizens of Catawba County. It is being developed in two sections: northern and southern. The northern section begins at Sherrills Ford Elementary School on Sherrills Ford Rd and extends northerly to the existing Hickory-Catawba Wastewater Treatment Plant. \$7 million was borrowed for the northern section. Debt service payments are \$520,415 annually. The southern section begins at Sherrills Ford Elementary School and extends southerly to Highway 150, then westerly along Highway 150 to the new Highway 16 and 150 interchange. The southern section is estimated at \$9.2 million, which will be borrowed. Financing for this project will be derived primarily from ad valorem and sales tax dollars dedicated to the Water & Sewer Fund as well as any capital fees associated with customers tapping into the line. Debt services payments will be made from the tax dollars entering the Fund.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name Highway 150 Sewer Phase II & III
Project Service Area Catawba County
Project Department Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	1,205,000	815,400	0	0	2,033,000	0	0	0	4,053,400
	0	1,205,000	815,400	0	0	2,033,000	0	0	0	4,053,400
Revenue/Funding Source										
Water & Sewer Fund	0	1,205,000	815,400	0	0	2,033,000	0	0	0	4,053,400
	0	1,205,000	815,400	0	0	2,033,000	0	0	0	4,053,400

Project Description/Justification

Phase I of this project will provide sewer service along Highway 150 from the interchange of Highway 150 and the new Highway 16 to Terrell and will terminate in the existing sewers at the Sherrills Ford Elementary School. Phase II of this project will provide gravity sewer service from Terrell to Marshall Steam Station along Highway 150. Phase III of this project will provide sewer service from Marshall Steam Station east along Highway 150 to the Catawba River.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name Lyle Creek Sewer Outfall
Project Service Area Catawba County
Project Department Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Revenue/Funding Source										
Water & Sewer Fund	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

Project Description/Justification

This project , in cooperation with the Cities of Claremont, Conover, and Hickory will provide a sewer outfall along Lyle Creek to the Hickory-Catawba Wastewater Treatment Plant. Preliminary Engineering Report budgeted in 10/11.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name Molly's Backbone/Monbo/Long Island Roads Water (21027)
Project Service Area Southeastern Catawba County
Project Department Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	695,000	0	0	1,000,000	0	600,000	2,295,000
	0	0	0	695,000	0	0	1,000,000	0	600,000	2,295,000
Revenue/Funding Source										
Water & Sewer Fund	0	0	0	695,000	0	0	1,000,000	0	600,000	2,295,000
	0	0	0	695,000	0	0	1,000,000	0	600,000	2,295,000

Project Description/Justification

This project was initially started from citizen requests in the area and has now become important in the overall plan of providing water and sewer services to the SECC area. As sewer service is provided in the area it is also important to provide municipal water service as well. Financing for this project will be derived primarily from ad valorem and sales tax dollars dedicated to the Water & Sewer Fund as well as any capital fees associated with customers tapping into the line.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name Mt View Elementary School Sewer
Project Service Area Mountain View Area
Project Department Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0		3,000,000	3,000,000	0	0	0	0	6,000,000
	0	0	0	3,000,000	3,000,000	0	0	0	0	6,000,000
Revenue/Funding Source										
Water & Sewer Fund	0	0		3,000,000	3,000,000	0	0	0	0	6,000,000
	0	0	0	3,000,000	3,000,000	0	0	0	0	6,000,000

Project Description/Justification

This project will provide waste water service to Mt View Elementary School and the surrounding area. The Preliminary Engineering Report (PER) is being performed in Spring 2010. Financing for this project will be derived primarily from ad valorem and sales tax dollars dedicated to the Water & Sewer Fund as well as any capital fees associated with customers tapping into the line.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name	National Pollutant Discharge Elimination System(NPDES) Testing & Removal (20003)
Project Service Area	Catawba County
Project Department	Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Revenue/Funding Source										
Water & Sewer Fund	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

Project Description/Justification

This is an ongoing project to ensure the safety of the water on Lake Norman and establishes a consistent water quality baseline and investigates the removal of permitted NPDES discharge points. Financing for this project will be derived primarily from ad valorem and sales tax dollars dedicated to the Water & Sewer Fund.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name Oxford Park/Rockett Terrace Water
Project Service Area Northern Catawba County
Project Department Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	0	0	465,000	0	0	465,000
	0	0	0	0	0	0	465,000	0	0	465,000
Revenue/Funding Source										
Water & Sewer Fund	0	0	0	0	0	0	465,000	0	0	465,000
	0	0	0	0	0	0	465,000	0	0	465,000

Project Description/Justification

This project will provide municipal water service to approximately 60 residential lots. Financing for this project will be derived primarily from ad valorem and sales tax dollars dedicated to the Water & Sewer Fund as well as any capital fees associated with customers tapping into the line.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name Riverbend Road Water I, II & III
Project Service Area Northern Catawba County
Project Department Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	657,000	0	0	0	0	840,000	730,000	2,227,000
	0	0	657,000	0	0	0	0	840,000	730,000	2,227,000
Revenue/Funding Source										
Water & Sewer Fund	0	0	657,000	0	0	0	0	840,000	730,000	2,227,000
	0	0	657,000	0	0	0	0	840,000	730,000	2,227,000

Project Description/Justification

The three phases of this project will provide municipal water service along Riverbend Rd and the northeastern portion of the County. This water line also provides some redundant supply looping and will be part of a water supply loop that includes the northern reaches of NC Highway 16. Financing for this project will be derived primarily from ad valorem and sales tax dollars dedicated to the Water & Sewer Fund as well as any capital fees associated with customers tapping into the line.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name	Rock Barn Road/Oxford School Road Water Loop (26001)
Project Service Area	Northern Catawba County
Project Department	Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation		0	445,000	0	0	0	0	0	0	445,000
	0	0	445,000	0	0	0	0	0	0	445,000
Revenue/Funding Source										
Water & Sewer Fund		0	445,000	0	0	0	0	0	0	445,000
	0	0	445,000	0	0	0	0	0	0	445,000

Project Description/Justification

This project was initiated through a citizen petition in 2002. Staff sought CDBG grant funds for this project in 2004 but was unsuccessful in getting the project to qualify. The 2004 grant surveying identified 24 out of 65 households that were either experiencing problems with their wells or were on shared wells. This project will not only provide potable water to an area that has petitioned the County for water service due to a diminishing water table and resulting problems with drinking water wells but will also provide a valuable water supply loop to the City of Conover water distribution system. Financing for this project will be derived primarily from ad valorem and sales tax dollars dedicated to the Water & Sewer Fund as well as any capital fees associated with customers tapping into the line.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name Southeastern Catawba County (SECC) Water Improvements (20101)
Project Service Area Southeastern Catawba County
Project Department Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Revenue/Funding Source										
Water & Sewer Fund	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

Project Description/Justification

Various water line improvements and extensions within the SECC water service area to enhance the provision of municipal water service in conjunction with the installation of municipal sewer service. Financing for this project will be driven primarily from ad valorem and sales tax dollars dedicated to the Water & Sewer Fund.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name	Southeastern Catawba County (SECC) Wastewater Collecton System (21023)
Project Service Area	Southeastern Catawba County
Project Department	Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Revenue/Funding Source										
Water & Sewer Fund	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

Project Description/Justification

The SECC Wastewater Collectiion System project will provide a safe and economical means of wastewater disposal and treatment for Sherrills Ford Elementary School, area property owners, and future economic development. This project benefits all citizens of Catawba County. It is being developed in two sections: northern and southern. The northern section begins at Sherrills Ford Elementary School on Sherrills Ford Rd and extends northerly to the existing Hickory-Catawba Wastewater Treatment Plant. \$7 million was borrowed for the northern section. Debt service payments are \$520,415 annually. The southern section begins at Sherrills Ford Elementary School and extends southerly to Highway 150, then westerly along Highway 150 to the new Highway 16 and 150 interchange. The southern section is estimated at \$9.2 million, which will be borrowed. Financing for this project will be derived primarily from ad valorem and sales tax dollars dedicated to the Water & Sewer Fund as well as any capital fees associated with customers tapping into the line. Debt services payments will be made from the tax dollars entering the Fund.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name Sludge Composting Facility (20002)
Project Service Area Catawba County
Project Department Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	350,000	350,000	350,000	0	0	0	0	0	1,050,000
	0	350,000	350,000	350,000	0	0	0	0	0	1,050,000
Revenue/Funding Source										
Water & Sewer Fund	0	350,000	350,000	350,000	0	0	0	0	0	1,050,000
	0	350,000	350,000	350,000	0	0	0	0	0	1,050,000

Project Description/Justification

Catawba County owns 18.5% of the Sludge Composting Facility, and this project represents the County's anticipated share of the debt service, maintenance, and operational costs of the facility, and engineering assessment of the existing equipment to evaluate the feasibility of usage in the EcoComplex and Regional Biosolids Processing Facility. This project will close as the Biosolids Management Facility. Financing for this project will be derived primarily from ad valorem and sales tax dollars dedicated to the Water & Sewer Fund as well as any domestic hauler fees.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name Smyre Farm Road Water
Project Service Area Southern Catawba County
Project Department Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Revenue/Funding Source										
Water & Sewer Fund	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

Project Description/Justification

This project was initiated by the City of Newton in order to provide a looped system serving portions of NC Highway 16 south of Newton. Financing for this project will be derived primarily from ad valorem and sales tax dollars dedicated to the Water & Sewer Fund as well as any capital fees associated with customers tapping into the line.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name Southwest Water Loop
Project Service Area Catawba County
Project Department Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Revenue/Funding Source										
Water & Sewer Fund	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

Project Description/Justification

This project , in cooperation with the City of Hickory, will provide a water loop through the wouthwest portion of the County providing potable drinking water, enhanced fire protection and redundancy of the water system that serves the Banoak areas. Preliminary Engineering Report budgeted in 10/11.

CAPITAL IMPROVEMENT PLAN
Water & Sewer Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Name Springs Road Water
Project Service Area Northern Catawba County
Project Department Water & Sewer Fund

Project Budget	Fiscal Year 2009/10	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	470,000	0	0	0	0	470,000
	0	0	0	0	470,000	0	0	0	0	470,000
Revenue/Funding Source										
Water & Sewer Fund	0	0	0	0	470,000	0	0	0	0	470,000
	0	0	0	0	470,000	0	0	0	0	470,000

Project Description/Justification

This project will provide a looped water system in the northern portion of the County by connecting water lines from St. Peter's Church Road to NC Highway 16 and will provide municipal water service along lower Springs Road. Financing for this project will be derived primarily from ad valorem and sales tax dollars dedicated to the Water & Sewer Fund as well as any capital fees associated with customers tapping into the line.

CAPITAL IMPROVEMENT PLAN
Solid Waste Projects - SUMMARY
Fiscal Years 2010/11 through 2017/18

Project Budget	Prior Funding	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17
Appropriations								
Bulldozer	0	0	0	300,000	0	300,000	0	0
Caterpillar Loader	0	0	0	150,000	0	0	160,000	0
Construction & Demolition Landfill Closure	0	0	0	0	0	90,000	0	0
Compactor	0	450,000	0	0	625,000	0	0	0
Dump Truck	0	0	0	0	0	100,000	0	0
EcoComplex & Regional Biosolids Processing Facility	300,000	300,000	300,000	0	0	0	0	0
Excavator Cat	0	0	0	0	0	0	0	0
Farm Tractor	0	0	0	65,000	0	0	0	0
GPS Elevations/Grade Control System	0	0	100,000	50,000	0	0	0	0
Intermediate and Final Closure Costs	0	0	0	2,400,000	2,400,000	2,800,000	0	0
Mechanic Truck and/or Service Fuel Truck	0	0	0	0	130,000	50,000	0	75,000
Methane Gas Perimeter Infrastructure	350,000	0	75,000	100,000	0	0	0	0
3/4 Ton and/or 1/2 Ton Pickup	0	0	0	0	0	65,000	30,000	0
Off Road Dump Truck	0	0	0	0	0	0	450,000	450,000
Rubber Tire Loader	0	0	0	150,000	0	0	0	0
Semi Road Tractor	0	0	0	65,000	0	0	0	0
Sherrills Ford Convencience Center	0	0	0	0	0	0	0	0
Subtitle D, Unit 3, Phase 2	0	130,000	0	260,000	1,200,000	1,200,000	620,000	3,760,000
Tarp Machine & Covering System	0	125,000	0	0	0	0	0	0
Tub Grinder	0	0	0	0	0	0	650,000	0
Wilfong Pond Mitigation	0	0	0	0	0	0	0	0
	650,000	1,005,000	475,000	3,540,000	4,355,000	4,605,000	1,910,000	4,285,000
Revenue/Funding Source								
Solid Waste Fund	650,000	1,005,000	475,000	3,540,000	4,355,000	4,605,000	1,910,000	4,285,000
	650,000	1,005,000	475,000	3,540,000	4,355,000	4,605,000	1,910,000	4,285,000

CAPITAL IMPROVEMENT PLAN
Solid Waste Projects
Fiscal Years 2010/11 through 2017/18

Project Name Bulldozer
Project Service Area Blackburn Landfill
Project Department Solid Waste Fund

Project Budget	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	300,000	0	300,000	0	0	0	600,000
	0	0	300,000	0	300,000	0	0	0	600,000
Revenue/Funding Source									
Solid Waste Fund	0	0	300,000	0	300,000	0	0	0	600,000
	0	0	300,000	0	300,000	0	0	0	600,000

Project Description/Justification

Bulldozers are scheduled for replacement in Fiscal Years 2011/12 and 2014/15. Replacements are scheduled according to Solid Waste financial analysis and planning.

CAPITAL IMPROVEMENT PLAN
Solid Waste Projects
Fiscal Years 2010/11 through 2017/18

Project Name Caterpillar Loader
Project Service Area Blackburn Landfill
Project Department Solid Waste Fund

Project Budget	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	150,000	0	0	160,000	0	0	310,000
	0	0	150,000	0	0	160,000	0	0	310,000
Revenue/Funding Source									
Solid Waste Fund	0	0	150,000	0	0	160,000	0	0	310,000
	0	0	150,000	0	0	160,000	0	0	310,000

Project Description/Justification

Caterpillar Loaders are scheduled for replacement in Fiscal Years 2012/13 and 2015/16. Replacements are scheduled according to Solid Waste financial analysis and planning.

CAPITAL IMPROVEMENT PLAN
Solid Waste Projects
Fiscal Years 2010/11 through 2017/18

Project Name Compactor
Project Service Area Blackburn Landfill
Project Department Solid Waste Fund

Project Budget	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	450,000	0	0	625,000	0	0	0	0	1,075,000
	450,000	0	0	625,000	0	0	0	0	1,075,000
Revenue/Funding Source									
Solid Waste Fund	450,000	0	0	625,000	0	0	0	0	1,075,000
	450,000	0	0	625,000	0	0	0	0	1,075,000

Project Description/Justification

Compactors are scheduled for replacement in various years according to Solid Waste financial analysis and planning.

CAPITAL IMPROVEMENT PLAN
Solid Waste Projects
Fiscal Years 2010/11 through 2017/18

Project Name EcoComplex and Resource Recovery
Project Service Area Blackburn Landfill
Project Department Solid Waste Fund

Project Budget	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	300,000	300,000	0		0	0	0	0	600,000
	300,000	300,000	0	0	0	0	0	0	600,000
Revenue/Funding Source									
Solid Waste Fund	300,000	300,000	0		0	0	0	0	600,000
	300,000	300,000	0	0	0	0	0	0	600,000

Project Description/Justification

The goal of this project is multi-faceted and will facilitate the conversion of the Blackburn Landfill into a true Resource Recovery Facility. This project is made up of many components including the relocation of the biosolids processing facility from the Fairgrove Business Park to the County's EcoComplex taking advantage of synergies with other ongoing and planned activities at the landfill, the creation of a Bio-Energy Facility, the locating of greenhouse and brick/pottery facilities, and the creation of a University research facility. This project will utilize existing heat energy sources from the Blackburn Co-Generation facility and new heat energy sources from the Bio-Energy Facility in efficient, state of the art, thermal drying equipment for the processing of wastewater sludge, and in providing heat/steam energy to G&G Lumber, Pallet One, and the brick/pottery facilities for use in their drying kilns. This project will provide energy and property for University research into biodiesel feedstock plants and their conversion into biodiesel fuel. Most importantly, this project will provide for improved economics for delivering the solid and bio-waste services required by the County's citizenry and neighboring communities.

CAPITAL IMPROVEMENT PLAN
Solid Waste Projects
Fiscal Years 2010/11 through 2017/18

Project Name Excavator Cat
Project Service Area Blackburn Landfill
Project Department Solid Waste Fund

Project Budget	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	0	0	0	350,000	350,000
	0	0	0	0	0	0	0	350,000	350,000
Revenue/Funding Source									
Solid Waste Fund	0	0	0	0	0	0	0	350,000	350,000
	0	0	0	0	0	0	0	350,000	350,000

Project Description/Justification

Excavator Cats are scheduled for replacement in Fiscal Years 2010/11 and 2015/16. Replacements are scheduled according to Solid Waste financial analysis and planning.

CAPITAL IMPROVEMENT PLAN
Solid Waste Projects
Fiscal Years 2010/11 through 2017/18

Project Name GPS Elevation/Grade System
Project Service Area Blackburn Landfill
Project Department Solid Waste Fund

Project Budget	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	100,000	50,000	0	0	0	0	0	150,000
	0	100,000	50,000	0	0	0	0	0	150,000
Revenue/Funding Source									
Solid Waste Fund	0	100,000	50,000	0	0	0	0	0	150,000
	0	100,000	50,000	0	0	0	0	0	150,000

Project Description/Justification

New GPS unit connects to compactor, software, and a base system. System will be used for grade control of waste placement, check waste density as it is compacted, and locating areas where special waste is buried. This will assist landfill operators in maintaining grades per State permit regulations.

CAPITAL IMPROVEMENT PLAN
Solid Waste Projects
Fiscal Years 2010/11 through 2017/18

Project Name Intermediate Closure Costs
Project Service Area Blackburn Landfill
Project Department Solid Waste Fund

Project Budget	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	2,400,000	2,400,000	2,800,000	0	0	0	7,600,000
	0	0	2,400,000	2,400,000	2,800,000	0	0	0	7,600,000
Revenue/Funding Source									
Solid Waste Fund	0	0	2,400,000	2,400,000	2,800,000	0	0	0	7,600,000
	0	0	2,400,000	2,400,000	2,800,000	0	0	0	7,600,000

Project Description/Justification

This project will fund the State required closure costs for Subtitle D Cell Unit 2, Phases 1 & 2 in fiscal years 2012/13 and 2013/14. Closure costs for Unit 3 Phase 1 are budgtd in year 2014/15.

CAPITAL IMPROVEMENT PLAN
Solid Waste Projects
Fiscal Years 2010/11 through 2017/18

Project Name Mechanic Truck, Service Fuel Truck
Project Service Area Blackburn Landfill
Project Department Solid Waste Fund

Project Budget	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	130,000	50,000	0	75,000	0	255,000
	0	0	0	130,000	50,000	0	75,000	0	255,000
Revenue/Funding Source									
Solid Waste Fund	0	0	0	130,000	50,000	0	75,000	0	255,000
	0	0	0	130,000	50,000	0	75,000	0	255,000

Project Description/Justification

Replacement mechanics truck and service fuel trucks are scheduled according to Solid Waste financial analysis and planning.

CAPITAL IMPROVEMENT PLAN
Solid Waste Projects
Fiscal Years 2010/11 through 2017/18

Project Name Methane Gas Perimeter Wells and Lines
Project Service Area Blackburn Landfill
Project Department Solid Waste Fund

Project Budget	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	75,000	100,000	0	0	0	0	0	175,000
	0	75,000	100,000	0	0	0	0	0	175,000
Revenue/Funding Source									
Solid Waste Fund	0	0	100,000	0	0	0	0	0	100,000
	0	0	100,000	0	0	0	0	0	100,000

Project Description/Justification

New Methane gas extraction wells and purchase associated piping, fittings, heads, etc. in completed waste areas of Unit 2 Phase 1 & 2 landfill cells. This will allow landfill to start extracting needed methane from these areas to increase gas flow to the co-generation facility.

CAPITAL IMPROVEMENT PLAN
Solid Waste Projects
Fiscal Years 2010/11 through 2017/18

Project Name Off Road Dump Truck
Project Service Area Blackburn Landfill
Project Department Solid Waste Fund

Project Budget	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	0	450,000	450,000	0	900,000
	0	0	0	0	0	450,000	450,000	0	900,000
Revenue/Funding Source									
Solid Waste Fund	0	0	0	0	0	450,000	450,000	0	900,000
	0	0	0	0	0	450,000	450,000	0	900,000

Project Description/Justification

Off Road Dump Trucks are scheduled for replacement in Fiscal Years 2009/10 and 2013/14. Replacements are scheduled according to Solid Waste financial analysis and planning.

CAPITAL IMPROVEMENT PLAN
Solid Waste Projects
Fiscal Years 2010/11 through 2017/18

Project Name Rubber Tire Loader
Project Service Area Blackburn Landfill
Project Department Solid Waste Fund

Project Budget	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	150,000	0	0	0	0	0	150,000
	0	0	150,000	0	0	0	0	0	150,000
Revenue/Funding Source									
Solid Waste Fund	0	0	150,000	0	0	0	0	0	150,000
	0	0	150,000	0	0	0	0	0	150,000

Project Description/Justification

Replace existing loader, new loader is needed to maintain grinding area, load materials in grinders, load mulch for customers, load gravel, turn compost, and general duties at the landfill.

CAPITAL IMPROVEMENT PLAN
Solid Waste Projects
Fiscal Years 2010/11 through 2017/18

Project Name Sherrills Ford Convenience Center
Project Service Area Blackburn Landfill
Project Department Solid Waste Fund

Project Budget	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
Revenue/Funding Source									
Solid Waste Fund	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0

Project Description/Justification

The Sherrills Ford Convenience Center site has become too small to handle usage and traffic has become a potential hazard on Sherrills Ford Road. This site is also the only convenience center site located on property that the County does not own. Options are currently being studied including relocation. These funds will be used toward that cost or other solutions as approved by the Board.

CAPITAL IMPROVEMENT PLAN
Solid Waste Projects
Fiscal Years 2010/11 through 2017/18

Project Name Subtitle D Cell Construction
Project Service Area Blackburn Landfill
Project Department Solid Waste Fund

Project Budget	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	130,000	0	260,000	1,200,000	1,200,000	620,000	3,760,000	0	7,170,000
	130,000	0	260,000	1,200,000	1,200,000	620,000	3,760,000	0	7,170,000
Revenue/Funding Source									
Solid Waste Fund	130,000	0	260,000	1,200,000	1,200,000	620,000	3,760,000	0	7,170,000
	130,000	0	260,000	1,200,000	1,200,000	620,000	3,760,000	0	7,170,000

Project Description/Justification

The project funds the continuum of the Subtitle D Cell, Phase 2 of Unit 3.

CAPITAL IMPROVEMENT PLAN
Solid Waste Projects
Fiscal Years 2010/11 through 2017/18

Project Name Dump Truck-OnRoad
Project Service Area Blackburn Landfill
Project Department Solid Waste Fund

Project Budget	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	100,000	0	0	0	100,000
	0	0	0	0	100,000	0	0	0	100,000
Revenue/Funding Source									
Solid Waste Fund	0	0	0	0	100,000	0	0	0	100,000
	0	0	0	0	100,000	0	0	0	100,000

Project Description/Justification

Replace existing on-road dump truck.

CAPITAL IMPROVEMENT PLAN
Solid Waste Projects
Fiscal Years 2010/11 through 2017/18

Project Name Tub Grinder
Project Service Area Blackburn Landfill
Project Department Solid Waste Fund

Project Budget	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	0	650,000	0	0	650,000
	0	0	0	0	0	650,000	0	0	650,000
Revenue/Funding Source									
Solid Waste Fund	0	0	0	0	0	650,000	0	0	650,000
	0	0	0	0	0	650,000	0	0	650,000

Project Description/Justification

Replace tub grinder in C&D Landfill area in accordance with Solid Waste Financial Plan.

CAPITAL IMPROVEMENT PLAN
Solid Waste Projects
Fiscal Years 2010/11 through 2017/18

Project Name Wilfond Pond/Stream Mitigation
Project Service Area Blackburn Landfill
Project Department Solid Waste Fund

Project Budget	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
Revenue/Funding Source									
Solid Waste Fund	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0

Project Description/Justification

Completion of NCDENR and US Corp of Engineers 401/404 permitting for the abandonment of Wilfong Pond and associated creek. By abandoning the pond and creek, will allow County to bury solid waste in this area in the future. Wilfong Pond needs to be removed prior to the next landfill cell (Unit 3, Phase 2) being constructed due to the Wilfong access road alignment.

CAPITAL IMPROVEMENT PLAN
Solid Waste Projects
Fiscal Years 2010/11 through 2017/18

Project Name Tarp Machine and Covering System
Project Service Area Blackburn Landfill
Project Department Solid Waste Fund

Project Budget	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	125,000	0	0	0	0	0	0	0	125,000
	125,000	0	0	0	0	0	0	0	125,000
Revenue/Funding Source									
Solid Waste Fund	125,000	0	0	0	0	0	0	0	125,000
	125,000	0	0	0	0	0	0	0	125,000

Project Description/Justification

Tarp machine is used to cover MSW working face on a daily basis, especially on days when soil cannot be easily hauled for daily cover. Tarp will cover approximately 75' x 100' area resulting in a savings on 150 cubic yards of dirt or 43,000 cubic yards per year and approximately 79 tons of air space.

CAPITAL IMPROVEMENT PLAN
Solid Waste Projects
Fiscal Years 2010/11 through 2017/18

Project Name 3/4 Ton and/or 1/2 Ton Pickup
Project Service Area Blackburn Landfill
Project Department Solid Waste Fund

Project Budget	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	65,000	30,000	0	0	95,000
	0	0	0	0	65,000	30,000	0	0	95,000
Revenue/Funding Source									
Solid Waste Fund	0	0	0	0	65,000	30,000	0	0	95,000
	0	0	0	0	65,000	30,000	0	0	95,000

Project Description/Justification

CAPITAL IMPROVEMENT PLAN
Solid Waste Projects
Fiscal Years 2010/11 through 2017/18

Project Name Semi Road Tractor
Project Service Area Blackburn Landfill
Project Department Solid Waste Fund

Project Budget	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	65,000	0	0	0	0	65,000
	0	0	0	65,000	0	0	0	0	65,000
Revenue/Funding Source									
Solid Waste Fund	0	0	0	65,000	0	0	0	0	65,000
	0	0	0	65,000	0	0	0	0	65,000

Project Description/Justification

Tractor is used to haul tankers and trailers in landfill daily operations. Replacement is scheduled according to the Solid Waste Analysis.

CAPITAL IMPROVEMENT PLAN
Solid Waste Projects
Fiscal Years 2010/11 through 2017/18

Project Name Farm Tractor
Project Service Area Blackburn Landfill
Project Department Solid Waste Fund

Project Budget	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	65,000	0	0	0	0	0	65,000
	0	0	65,000	0	0	0	0	0	65,000
Revenue/Funding Source									
Solid Waste Fund	0	0	65,000	0	0	0	0	0	65,000
	0	0	65,000	0	0	0	0	0	65,000

Project Description/Justification

CAPITAL IMPROVEMENT PLAN
Solid Waste Projects
Fiscal Years 2010/11 through 2017/18

Project Name Construction and Demolition Landfill Closure
Project Service Area Blackburn Landfill
Project Department Solid Waste Fund

Project Budget	Fiscal Year 2010/11	Fiscal Year 2011/12	Fiscal Year 2012/13	Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Appropriation	0	0	0	0	90,000	0	0	0	90,000
	0	0	0	0	90,000	0	0	0	90,000
Revenue/Funding Source									
Solid Waste Fund	0	0	0	0	90,000	0	0	0	90,000
	0	0	0	0	90,000	0	0	0	90,000

Project Description/Justification

